SCREENING SITE INSPECTION WORK PLAN FOR

LOGAN STORAGE SITES
FRANKLIN GROVE, ILLINOIS
U.S. EPA ID: ILDO25475914

SS ID: N/A TDD: F05-8917-089 PAN: FILO705SA



MARCH 8, 1990

Elements of this Screening Site Inspection Work Plan are considered confidential and pre-decisional in nature. Material and information contained within this report may not be released without the approval of the United States Environmental Protection Agency Region V Pre-Remedial Unit.



ecology and environment, inc.

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recycled paper



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

230 SOUTH DEARBORN ST. CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

5HR-11

Mr. Thomas Crause, Manager
Hazardous Substances Planning Unit
Illinois Environmental
Protection Agency
2200 Churchill Rd.
Springfield, Illinois 62794-9276

Site Name: Logan Storage Sites

Location: Franklin Grove

Identification No. JLD025475914

Date: March 8 1990

Dear Mr. Crause:

Attached is a copy of the site inspection work plan which has been prepared for the site listed above. This document is considered to be <u>draft</u> and subject to changes and modifications based on actual conditions which may be encountered at the site.

Because this is considered to be a draft document, it should be for official use only and should not be distributed outside of your agency without prior notification and approval of the U.S. Environmental Protection Agency.

The document also contains a preliminary estimate of the Hazard Ranking System (HRS) score for the site and a project score based on specific assumptions as addressed in the work plan. This information is considered predecisional. Therefore, it should not be released. Your field and district staff especially should be made aware of the predecisional nature of this score, the legal implications of releasing it relative to the National Priorities List (NPL) candidacy process, and therefore the need not to release any score. If you have any questions concerning release of this information, please contact Ms. Jeanne Griffin, of my staff, at (312) 886-3007.

If you have any comments on the work plan itself, please contact Mr. Charles Castle, of my staff, at (312) 886-5892, within eight calendar days. If we do not receive any comments written or verbal from you, then we will assume that the work plan is acceptable.

Please note that inspections are carried out under CERCLA to determine if a site will make the NPL. Thus, extra sampling or other activities that serve only a State purpose should not be requested. We will welcome suggestions based on the knowledge of you and your staff that will make for a better site inspection for NPL candidacy purpose.

Please talk with Mr. Castle as early within the comment period as possible in order that your suggestions can be evaluated and modifications made.

Sincerely yours,

Thomas Heisherher

Thomas Geishecker, Chief Technical Support Section

Enclosures

1427:4

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WORK PLAN

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WORK PLAN

INSPECTION WORK PLAN

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this document, this document and its attachments are not to be released without prior approval of the United States Environmental Protection Agency (U.S. EPA).

This site inspection work plan (WP) has been prepared by Ecology and Environment, Inc., or its subcontractor, C. C. Johnson and Malhotra, P.C., under the field investigation team (FIT) contract with U.S. EPA (No. 68-01-7347).

The objectives of this WP are to:

- o Prepare a preliminary Hazard Ranking System (HRS) score using HRS 1 (40 CFR 300, July 16, 1982) criteria based on existing file information (Part C of WP);
- o Prepare projected HRS 1 scores based on experience and professional judgement (Part C of WP);
- o Identify HRS 1 score data gaps (Part E of WP); and
- o Propose site inspection activities to satisfy the HRS 1 score data gaps; technical approach and estimated LOE are provided (Parts E and I, respectively).

Unless otherwise stated, QA/QC protocol for site inspection activities is documented in the Quality Assurance Project Plan Region V FIT Conducted Site Inspections - May 1, 1987.

A. GENERAL INFORMATION

cerclis site NAME: Logan Storage Site
ALSO KNOWN AS: Bob Lossan Tractor Company
FORMERLY KNOWN AS: NA
ADDRESS: Box 216, State Street CITY: Franklin Grove
STATE: Illinois
COUNTY: Lee
ZIP CODE: 61031
U.S. EPA ID: <u>ILD 025475914</u>
SSID: N/A TDD: F05-8912-089
PAN: FIL 07055A
FIT USE ONLY
WORK PLAN TYPE: SCREENING SITE INSPECTION (SSI) WORK PLAN
OTHER:
PREPARED BY: Jeff Taylor (FIT) DATE: 2/5/90
REVIEWED BY: Karen My Angle (FIT) DATE: Abruary 13,1990 APPROVED BY: Regima Bayer (FIT) DATE: 3/5/90
REVIEWED BIT. ACCOUNTY OF THE PROPERTY OF THE
APPROVED BY: Reguna Gayer (FIT) DATE: 3/5/90
U.S. EPA USE ONLY
DOUTDURD BY. (II & EDA) DATE.
REVIEWED BY: (U.S. EPA) DATE:
WORK PLAN APPROVED. Recommend issuance of TDD to implement the Work Plan.
WORK PLAN APPROVED. No Further Remedial Action Planned (NFRAP).
— WOLK I DAN ALTHOUGH TO THE MEMBER INCLUMENTALISM OF THE MEMBER INCLUMENT
WORK PLAN REJECTED.
COMMENTS
COMMENTS:

B. SITE INFORMATION

This section of the WP presents current and historic information pertaining to the site, including: site operations, storage/disposal methods, site property area, site status, owners and operators, permit information, and response/enforcement activities. A site location map is shown on Figure 1, located in Section 2.

	✓ Above ground storage	Mining site
	Below ground storage	Open dump
	Chemical manufacturer	Ore processor Physical/chemical treatment Recycler/reclaimer Surface impoundment
	Drum recycler	Physical/chemical treatment
	Electroplater	Recycler/reclaimer
	Drum recycler Electroplater Foundry	Surface impoundment
	Incinerator	Underground injection
	Landfarm	Vell field
	Landfill	Vood preserver
	Midnight dump	V Other: Used Tractor Part
		Sales
	References: , 9	
	References:	
2.	Storage/Disposal Methods (past a	and present; check all that apply):
		Waste Quantity
		waste quantity
		(amount/unite of measure)
		(amount/units of measure)
	Drums, above ground	
	Drums, above ground	(amount/units of measure) ~ 1400
	Landfarm	
	Landfarm Landfill	
	Landfarm	
	Landfarm Landfill Open dump	
	Landfarm Landfill Open dump Piles Surface impoundment	
	Landfarm Landfill Open dump Piles	
	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground	
	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground	
	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground Other:	~ 1400
	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground	
3.	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground Other:	,
3.	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground Other: References: , 9	,
3.	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground Other: References: , 9 Site Property Area: ~2 References: , 2	/
3.	Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground Other: References: , 9 Site Property Area: ~2 References: , 2	/

During The mid 1970's Mr Bob Logan began storing drums
of Paint sludge and paint waste solvents at his place of
business in Franklin Grove, Illinois. This waste crisinated
from the Valspar Corporation of Rochford, Illinois. By 1976,
Mr Logan had acrated approximately 1400 drums of this
Paint waste. On May 29, 1980 the Illinois Environmental
Protection Agency (IEPA) conducted a site investigation and
observed drums on this site. Another site investigation
by the IEPA on June 25 1980, discovered that some drums
were leaking According to Mr. Logan he was in the
process of getting rid of The drums. Over the next two
years the IEPA conducted numerous site investigations
and observed that the drums were being removed
File information indicates that he drums were sent to
Various locations, some to BFI/Druis Junction IL land fill, some
to Huckill Chemical and Solvent Recovery Corporation, and others
To a Land fill in North Dakota. File information also
indicates that by October 301900 the draw had been
removed along with any spilled material and contaminated
Soil. According to the IEPA Regional office that there was
a report that drums were alleged to have been burjed on site.

5. Site Status: Active	Inactive
References:,	,, ,,
6. Owner/Operator History	
Current Owner	Current Operator
Name: Robert Losan Address: Box 216 State Street	Name: Robert Logan Address Box 214 Stalestreet
Franklin Grove IL 6631 Fears of Ownership: 340455	City, State, Zip Code: Frankin Grove, IL 61031 Type of Operation: Farm implementations of Operation: Unhacun
Previous owners (list most recent first)	Previous operators (list most recent first)
Name: N/A Address:	Name: N/A Address
City, State, Zip Code:	City, State, Zip Code:
Years of Ownership:	Type of Operation: Years of Operation:
Name: N/A Address:	Name: N/A Address
City, State, Zip Code:	
Years of Ownership:	Type of Operation: Years of Operation:
References: 12	· · ·
7. Permit Information	Effective Date Expiration Date
NPDES UIC	
AIR RCRA,PART APART B SPCC PLAN	
STATE (specify): LOCAL (specify): OTHER (specify):	
NONE References:	

8. Response Activities (previous and all that apply):	current site remediation; check
Water supply closed Temporary water supply provided Permanent water supply provided Spilled material removed Contaminated soil removed Waste repackaged Waste disposed elsewhere On-site burial In situ treatment Encapsulation Emergency waste treatment Cutoff walls Emergency diking/surface water diversion	Cutoff trenches/sump Subsurface cutoff wall Barrier wall constructed Capping/covering Bulk tankage repaired Grout curtain constructed Bottom sealed Gas control Fire control Leachate treatment Area evacuated Access to site restricted Population relocated
Other remedial and enforcement ac indicates the drums were related files and others were gent information also indicates mr L his own and he IEPA monitored	to Chemical recyclers. File
References: 1, 9, 9. Documented and Alleged Target Com	pounds
The documented target compounds from previous sampling projects. based on the history of site op	compounds are compiled in Table 1. are supported by analytical data The alleged target compounds are erations and profession judgement. pound locations are shown on Figure

	CMPND	STATUS			M	ATR	× ()	5		DOCUMENTED COMPOUND AND CONCENTRATION OR	REFERENCE	
LOCATON	DOCU	ALLEG	SOIL	SED	вw	sw	AIR	WSTE	OTHR	ALLEGED COMPOUND AND RATIONAL	REFERENCE	
A		~	1							Lead		
Α		V	~							Paint Sludges and Solvents	i i	
			_		<u> </u>							
-	·			•								
								_		· · · · · · · · · · · · · · · · · · ·		
								 				
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		·										
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	-,									0		

Table i
DOCUMENTED/ALLEGED TARGET COMPOUND LIST

C. PRELIMINARY/PROJECTED HRS SCORES

The purpose of this section is to:

- o Prepare a preliminary HRS 1 score based on existing file information; and
- o Prepare projected HRS 1 scores based on experience and professional judgement.

PRELIMINARY HRS SCORE (this score is based on existing file information that was obtained prior to the screening site inspection):

 $S_{H} = O$ $S_{FE} = O$ $S_{DC} = O$

PROJECTED HRS SCORE FOR A SCREENING SITE INSPECTION (this score is based on the expected acquisition of information from the screening site inspection):

SH = 24.42 SPE = 0. SDC = 16.67

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (this score is based on the expected acquisition of information from the Listing Site Inspection):

 $S_{H} = \frac{40.70}{16.67}$ $S_{FE} = \frac{O}{O}$ $S_{DC} = \frac{16.67}{1}$

HRS 1 score worksheets are located in Section 3.

D. WORK SUMMARY

Based on the preliminary and projected HRS scores, a site inspection will be performed.

The objectives of the site inspection are to:

- o Provide information to satisfy HRS data gaps;
- o Develop the information base needed to permit U.S. EPA to evaluate the need for future site activities; including: immediate removal measures, additional investigation, or no further action; and
- o Characterize hazardous substances, pollutant dispersal pathways, types of receptors, facility management practices, and potentially responsible parties.

Specific tasks to be conducted during the site inspection are (check all that apply):

√ Interview site owner(s)/representative(s)
Take photographs of site and surrounding areas
Screen site with safety instrumentation (i.e., HNU, OVA, O, meter
explosimeter, radiation detector, cyanide detector)
✓ Collect environmental samples
Assess the need for Immediate Removal Actions
FASP*
Soil gas monitoring*
Vell point installations*
Geophysics *: Oyo model - 2441 Geo radar - I Grand (Specify)
OTHER*: Ponetrating Radar Unit, E6+6 Geometrix Piotan
Procession magnatometer.
* Rationale for these activities and their impact on HRS data gaps:
There to be true will be used the area of the all the
These techniques will be used in an attempt to verify a report of alleged buried droms.
Verity a tepart of contest diors,

Page	ł	of	2
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E. PROPOSED SAMPLE PLAN

	HRS data gap(s): Waste characteristics
	Sampling proposed to satisfy HRS data gap(s):
	Soil Sediment GW SW Air Waste
-	Sampling procedures (number and types of samples; equipment; methodology): Five Soil samples are proposed for this data Map, including 4 on-site 5-bsurface Soil samples and one sample for potential background characteristics. All samples will be preched and Shipped as per proper FPA and FtE preched
	WITH DE PERCHANA SILIPPER AS POST PLEASE FE PER PROP
e	table of proposed sample descriptions is presented in Table 2, ction 1. A proposed sample location map is presented on Figure 3 Section 2.
Sec In	table of proposed sample descriptions is presented in Table 2, ction 1. A proposed sample location map is presented on Figure 3
Sec In N)	table of proposed sample descriptions is presented in Table 2, ction 1. A proposed sample location map is presented on Figure 3 Section 2.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

B. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

3.	A)	HRS data gap(s): Observed release to surface water
	B)	
		SoilSedimentGWSWAirWaste
	C)	Sampling procedures (number and types of samples; equipment; methodology): No Samples are proposed for this data gap, since an overland route is not believed to exist.
	Se	table of proposed sample descriptions is presented in Table 2, ction 1. A proposed sample location map is presented on Figure 3 Section 2.
4.	A)	HRS data gap(s): Fire and Explosion, Direct contact. Air Route
	В)	Sampling proposed to satisfy HRS data gap(s):SoilSedimentGWSWAirWaste
	C)	Sampling procedures (number and types of samples; equipment; methodology): These date gaps will be addressed during the site representative interview.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

			М	ÀTRI	x (\	1		RATIONALE FOR DETERMINING SAMPLE LOCATION		P AR AMETERS 1				
LOCATION	SOIL	SED				·	OTHR			Pest/ PCB	VOA	METAL	CN-	OTHER
51	V							Waste Character istics	V	V	1	V	1	
52	1								~	V	1	1	7	
53	1							• •	1	1	1	1	1	
-54	1								√.		V	V		
54 55	1							Potential Background Simple	/	V	V	1	/	
						-	-							
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														الرجاد والمتالية والمدرودون
TOTALS	5							·	5	5	5	5	5	

¹Target Compound List Attached

. Table 2
PROPOSED SAMPLE DESCRIPTIONS
(INCLUDING ALL LABORATORY BLANKS AND DUPLICATES)

F. COMMENTS

It is believed Mr Logan Still operates his used Tractor parts company on this site, but it is believed he no losser accepts downs of waie.
Ind Telephore Conversation W/Bob Wengrow of the IEEO, FIT was informed that no enforcement activities were even exacted at this Site. He also tell FIT of a report of alleged buried dryms.
G. HEALTH AND SAFETY
Proposed E & E Health and Safety protocol to be followed during site
inspection.
1. Anticipated level of protection: A B C D
2. Level of protection modifications: Level D, with passible upgrades to level C if monitoring equipment action levels are reached.
3. Work limitations (time of day, etc.): Work will be limited to day light hours only. Team manbers will be monitored for heat/cold stress/ The buddy system will be observed at all times when on site.
H. TYPE OF DELIVERABLE
Proposed report format to be submitted to U.S. EPA.
1. SSI Report including U.S. EPA 2070-13 Form 2. Letter Report 3. Other

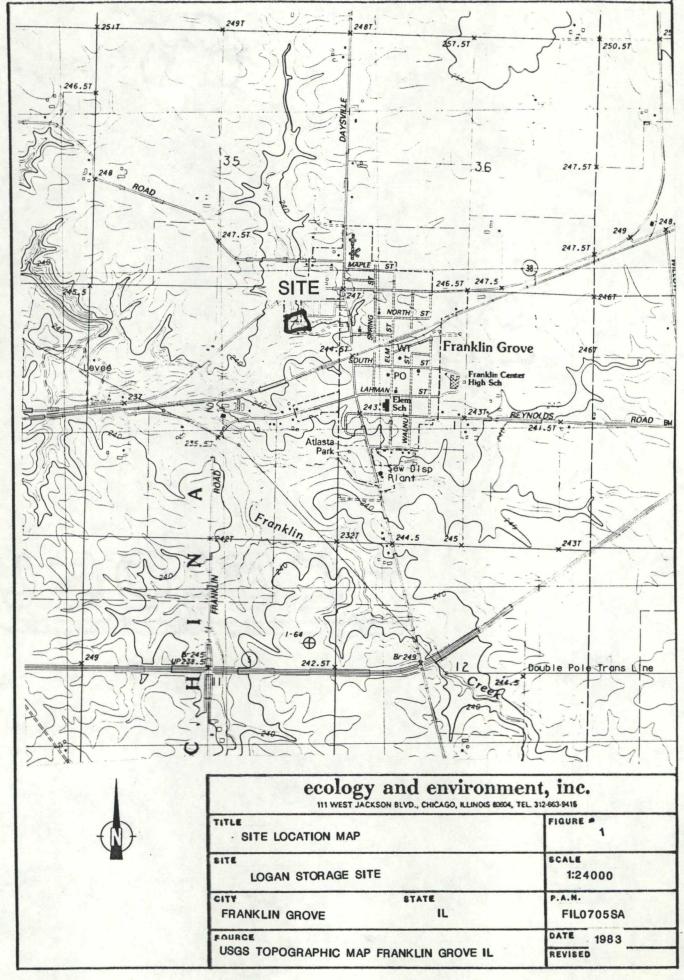
_											SUB	TASK							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	SUBTASK CODE	General Non-Specific	File Search/Review	Yort Plan	Safety Plan	ОАРР	Mobilization/Demobilization	Travel	Hon-Sampling Field Work	Sample Management	Field Sampling	Screening/Analytical	Subcontract	Meteorologic/Air Sampling Studies	Geophysical Work	Hydrogeological Work	Data Processing/Modelling	Data Validation	Draft Final Deliverable	Internal QA Review	Final Deliverable	Respond To Comments	,
		A	В	С	D	Ε	F	G	Н	ı	J	К	L	М	N	0	Ρ	Q	R	S	Т	U	TOTAL
TEAM LEADER		12	12		8		4	В	8		8				8'				60		20	8	156
SAFETY OFFICER		2			1		4	8	8		8				8								39
SAMPLER		2					2.	8	8	16			-		8							_	44
TEAM MEMBER		2					2.	8	8		8				8		-						3b
TE AM MEMBER		2					2	8	8		8				8								.76
Publications								<u> </u>	-										 	40			40
Sample Cock. Audit Team	二									4													4
Modit I cam	\dashv									<u> </u>								<u> </u>		25			25
QA/Admin		·			8													5					13
TOTALS FOR PROJ	ECT	20	12		רו		14	40	40	20	32				40			5	60	65	20	છ	400

I. ESTIMATED LOE HOURS

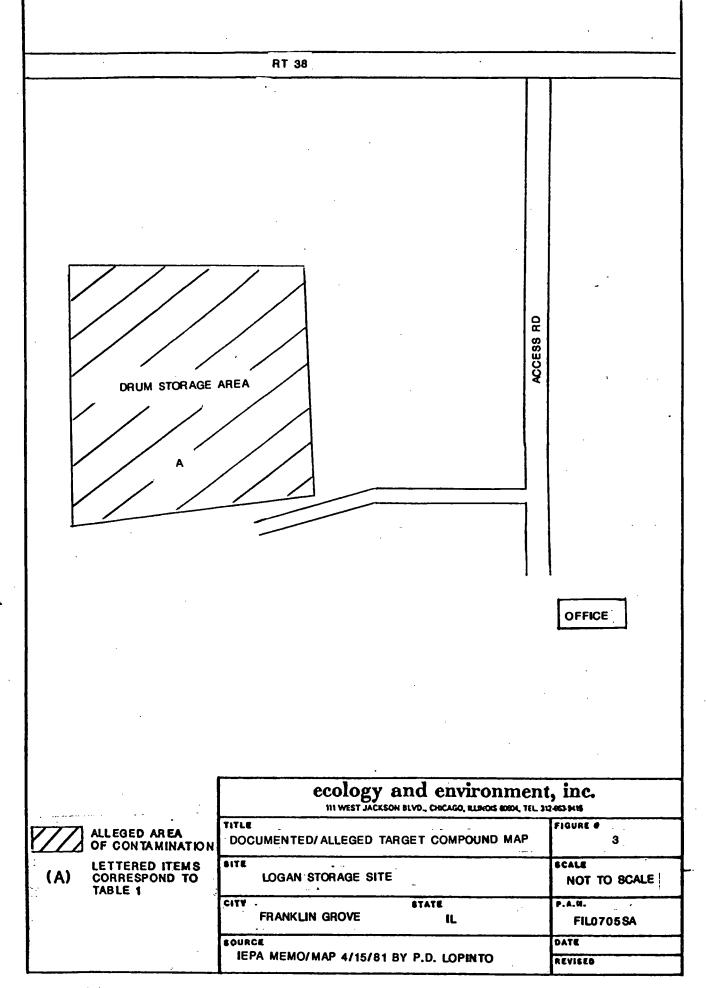
SUMMARY OF PROJECTED HOURS NEEDED TO IMPLEMENT SITE INSPECTION AND COMPLETE SITE INSPECTION REPORT.



SITE MAPS



RT 38 DRUM STORAGE AREA OFFICE' ecology and environment, inc. TITLE FIGURE # SITE FEATURES MAP 2 SITE SCALE LOGAN STORAGE SITE NOT TO SCALE FRANKLIN GROVE IL FIL07058A DATE SOURCE IEPA MEMO/MAP 4/15/81 BY P.D. LOPINTO REVISED



RT 38 S1 🛦 S2 ACCESS RD DRUM STORAGE AREA ▲ S4 S3 OFFICE S5 POTENTIAL BACKGROUND SAMPLE ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, BLINDS BOOK, TEL 112-853-818 TITLE FIGURE # A PROPOSED SOIL SAMPLE PROPOSED SOIL SAMPLE LOCATION MAP LOCATION SITE SCALE . LOGAN STORAGE SITE NOT TO SCALE CITY STATE FRANKLIN GROVE IL FILO705SA SOURCE DATE IEPA MEMO/MAP 4/15/81 BY P.D. LOPINTO REVISED

7



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Hazard Ranking System 1
Score Worksheets

PRELIMINARY AND PROJECTED HAZARD RANKING SYSTEM SCORE WORKSHEETS

Site Name:	Loggn	5 texane	Siles		(Cerdis Name)
	Bob Lon	on Tractor	company		(AKA)
Address:	Box 21	b State-	street '	<u> </u>	- ,
City/County/Sta	ate/Zip <u>Fra</u>	nhlin Gro	ve, Lee	, Illinois,	61031
Cerdis ID #	ILD 02	5475914	-	SSID No	e
Prepared by					
Reviewed by	Luenn	Jarde	E&E	Date Achi	uary 13, 1990
				PAN FILC	•
PA PA Re WP-SS WP-LS PRELIMINAR	SI .		 		
S _M =	0	S _{FE} =	6	\$ ₀₀ =	0
PROJECTED	HRS SC	ore for s	CREENIN	g site ins	PECTION (SSI)
S _M = 21	1.42	S _{FE} = .		Soc	= 16.67
PROJECTED	HRS SC	ORE FOR L	ISTING S	ITE INSPEC	TION (LSI)
S _M = L	10.70	S _{FE} =		Soc	= 16.67

PRELIMINARY HRS SCORE

CLOSS SOUT A BYTCO ON CTALLING LATE MADVATION LIVE AND OFFICE OUT DO LIVE BOYCOME BILL MORCLOSE

	s	s'
Groundwater Route Score (Soc-)	0	Ô
Surface Water Route Score (S _{er} -)	0	0
Air Route Score (S ₄ -)	0	٥
Sout + Sout + Sa		0
V S + S + S + S + S + S + S + S + S + S		0
Vs. + S. + S. / 173 - SM-		0.

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSD

THIS SCORE IS SUSED ON THE EXPECTED ACCURATION OF BROAKLEDN PHON THE SCHEEMING SITE SUPECTIONS

	s	s ^t
Groundwater Route Score (S_4)	42.24	1784.22
Surface Water Route Score (S1	0	O
Air Route Score (S ₄ -)	0	.0
St + St + St		1784.22
$\sqrt{S_{pr}^1 + S_{pr}^1 + S_A^2}$		42.24
V 50 + 50 + 54 / 1.73 - 54		24.42

PROJECTED HAS SCORE FOR LISTING SITE INSPECTION (LSD

(THE SCORE IS SAVED ON THE EXPECTED AGUSTION OF BUOXMATON MON THE LISTING SITE SAFECTORS

	S	6 º
Groundwater Route Score (S _{er} -)	70.41	4951,57
Surface Water Route Score (S _{pr} -1	0	0
Air Route Score (S ₄ -1	0	. 0
Son . Son . Sa		4975.57
VSor · Sor · Sa		70.41
$\sqrt{S_{or}^1 \cdot S_{or}^1 \cdot S_4^2} / 173 - S_{U}^2$		40.70

GROUNDWATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET							
(This ex	ore is based on existin	g file ink	ormation	that was cotained			
	prior to the Screen	ning Site	Inspectio	n.1			
Rating Factor	Assigned Value (Circle One)	Multi- plier	Soxe	Description	Ref. #		
1 Observed Release	6) 45	x1		No Decementation	·		
# Observed Release scor	es 45 proceed to fine 4 es 0 proceed to fine 2						
2 Route Characteristics		-		Aquiler Description:			
				Sanderere	3		
•	•			Limestane			
Depth to Aquiler	0 1 2 3	ĸ	4	40 EL	3		
Net Precipitation	0①23	ผ	1	Precip 34 Evap 32	4		
Permeability of the Unsaturated Zone	o (i) 2 3	r1	١	ω j _o]c=/sec	3		
Physical State (0123	xt	0	Unhnown	_		
	Total Route Char. Soon	•	6				
3 Containment	0123	ম	3	Drums leaking	10		
4 Waste Characteristics							
Persistence 0	1 2 3			`			
Toxicity 1	0 0						
2 6 3 9 1	5 9 12 9 12 15 2 15 18	x 1	0	Unknown	-		
Haz. Waste Quarkly	Ø 234 5678	x 1	0	Unknown	_		
,	Total Waste Char, Soo	Ke	0				
S Targets	*************************************						
Groundwater Use Distance to Nearest Well	0123	x3	9	Drinking water	8		
Nearest Well 0	0 0 0 0 0 0 0 0 0 4 6 8 10			~14-11e	8,2		
Population 3 Served 3	0 8 12 16 20 0 12 18 24 30			~ 1274 people	8,2		
5	0 16 24 32 35 0 20 30 35 40	x1	30	<u>.</u>			
	Total Targets Score		39				
E line 11 is 45, multiply If line 11 is 0, multiply			0				
Divide line d by 5	7,330 and mutiply by 10	x	S _{Gw} -	O			

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSD (This score is based on the expected acquisition of information from the Screening Site Inspection.)							
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Rel. #		
1 Observed Release	5) 45	x1	0	No documentation	-		
# Observed Release score	es 45 proceed to Enel 4 es 0 proceed to Enel 2						
2 Route Characteristics				Aquiller Description: Sandstone	7		
		1		Limestone	3		
or couceur	0 1 ②3	12	4	HUR	3		
•	0(1)2 3	x1	1	Precip 31 Evap 37	4		
Unsaturated Zone	Ö Ø 2 3	x1		Paints	3		
Physical State	0 1 2(3) Total Route Char. Scor	x1	3	Liquids, Sludges			
3 Containment	0 1 2 (3)	xi	3				
4 Waste Characteristics	4 (2 ()			Barrels leaking	۵٫۱		
Persistence 0	2 3			Assume heavy metals			
Toxicity 1 3	9 12 12 15	x1	18	(Leid) From Paint Sludges	1		
Haz. Waste Quantity	2 15 (18) 0 1 2 3 4(5) 6 7 1	B x1	5	~ 1400 drums	1,10		
	Total Waste Char. Soo	Χe	23				
S Targets		•••					
Groundwater Use Distance to Nearest Well	0 1 2(3)	x3	9	Drinking water	ઈ		
Nearest Well 0	0 0 0 0 0		_	1/4 mile rowers	8,2		
Population 3	0 8 12 16 20 0 12 18 24 35 0 16 24 32 35 0 20 30 35 40			~1274 People	8,2		
5 1		x 1	120				
6 If line 1 is 45, multiply	Total Targets Score		39				
at line 1 is Q, multiply			24219				
Divide line (by 5	7,330 and mutiply by 10	00	Sg.	42.24			

GROUNDWATER ROUTE

PROJECTED HE	RS SCORE WORKSHE	ET FOR	USTIN	G SITE INSPECTION (LS from the Ueting Site Inspe	U
	Assigned Value	Multi-	T	Hom the Usting Site Inspe	ction.)
Rating Factor	(Cirde One)	plier	Score	Description	Ref. #
1 Osserved Release	0 (45)	xi	45	1550 me observed relea	Sec -
# Observed Release soon	ores 45 proceed to line 2				
2 Route Characteristics				Aquiler Description:	
					1
Depth to Aquiller	0123	ام			•
of concern	,	12		<u>n.</u>	
Net Precipitation	0123	xt		Ргесір Еуар	
Permeability of the Unsaturated Zone	0123	xt		cm/sec	
Physical State	0123	xt			
	Total Route Char. Score	•			
3 Coctainment	0123	xi			
4 Waste Characteristics	4		· · · · · · ·	Assume heavy metals,	
Persistence 0	1 2 3	, <u>4</u> -	;	(Lead) From Paint Studges	
Toxicity 1 3	6 9 12 9 12 15		18		
·	12 15 (18)				
Haz. Waste Ouanlity		x1	5	~ 1400 drums	1,10
	Total Waste Char, Sco	re	23		
S Targets					
Groundwater Use Distance to	0123	x3	9	Drinking Water	8
Distance to Nearest Well	0 0 0 0 0	Ì		~1/4 mile	8.2
Population 2 Served 3	0 4 6 8 10 0 8 12 16 20 0 12 18 24 30			-0.04	
Served (2)	0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	×1	30	~1214 Deople	8,2
1	Total Targets Score				yyyyyy
6 F line 1 is 45, multiply			39		
t fine (1 is 0, motiply			4036s		
77			L		
Divide line e by S	7,330 and multiply by 100)	S _{gw} =	7041	
					

SURFACE WATER ROUTE

	PRELIMINARY HRS	SCOR	E WORK	SHEET	· 1				
(This so	(This score is based on existing ille information that was obtained prior to the Screening Site inspection.)								
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #				
1 Observed Release	① 45	x 1	0	NO decementation					
# Observed Release score # Observed Release score	es 45 proceed to line 4 es 0 proceed to line 2								
2 Roude Chausdedidics	ntervening Terrain			Facil 53 %	2				
	0 0 0 0 3	x 1	\bigcap	Interv 53 %	7				
Facility Stope	0 1 2 2 3	!	<u> </u>	Interval &					
•	0 1 2 2 3 0 2 2 3 3 0 2 3 3 3								
1-yr. 24 hr Rainfall	0123	x 1	2	2.5 ia.	5				
Distance to Nearest Surface Water	0 1 2 3	ĸ2	H	~ 1/4 mi, to Franklin	2				
Physical State	@123	x1	0	Unknown	-				
	Total Route Chár. Score)	6						
3 Containment	0 1 2(3)	g1	3	Drums leaking	10				
4 Waste Characteristics									
Persistence 6 1	2 3			,	_				
Toxicity 0 0	5 9 12	•		Unhnown					
	12 15 2 15 18	x1							
Haz. Waste Quantity	(0)	x t	0	Unknown					
	Total Waste Char. Sco	re ·	0						
S Targets									
Surface Water Use (0)123	x3	0	Franklin Cr.	c)				
Dist. to Sensitive	6123			Not Courently usel	8				
Environment	Distance to Water Intake Downstream	x a	۳	Noncuitnin Imile	7, 2				
	0 0 0 0								
Population	0 4 6 8 10 0 8 12 16 20 0 12 18 24 30			Surface water					
Served	0 16 24 32 35 0 20 30 35 40	x1	0	not used fordrinki	8				
	Total Targets Score		0						
6 If line 1 is 45, multiply	Ux8x8		1_						
. If fine 1 is 0, anutiply			0						
Divide line (by 64,35									

SURFACE WATER ROUTE

				NG SITE INSPECTION (
(This score is based on	the expected acquisit	tlon of Infor	mation f	rom the Screening Site ins	pectional
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Rolease	@ 45	z t	0	No decomentation	
C Observed Release son	xes 45 proceed to line xes 0 proceed to line [2			
2 Rouse Characteristics	Intervening Terrain			Facil≤3 %	2
Faci	0 0 0 0 3 May 0 1 1 2 3	x 1	0	Interv 5.3 %	2
Stop	'	-			
1-37. 24 hr Rainfal	1 0 1 2 3	· x 1	2	2.5 la.	5
Distance to Hearest Surface Water	<u> </u>	x 2	4	~ 1/4 mi to Franktin Cr.	Z
Physical State	0123	x1	3	Aint Sluges, Liquids	1
	Total Route Char. So	×000	9		
3 Containment	0 1 2(3)	x1	3	drung leaking	10
4 Waste Characteristics Persistence 0	1 2 3		,	Assume Heavy mala (legd) from Paint	1
Toxicity 1 3 2 6	0 0 0 6 9 12 9 12 15 12 15 18	x1	18	Slucker	1
Haz. Waste Quardi		7 8 x1	5	~ 1400 Barrels	1,10
	Total Waste Char.	Score	23		
S Targets			<u></u>		
Sociace Water Use	_	x:	0	Franklin Cr. Not Currently Used	8
O'st to Sensitive Environment		x:	20	None within Imile	7,2
	Distance to Water Intake Downstream 0 0 0 0 0				
Populati	00 8 12 16 20			Surface water	
Served	0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x	10	Not used for dranking	8
	Total Targets Scot	r•	0		
6 K line 11 is 45, multiple E line 11 is 0, multiple			0		
Divide line (by 64	,350 and mutiply by 10	o S _s ,	<i>•</i> 0		

SURFACE WATER ROUTE

PROJECTED HR	S SCORE WORKSHEE	T FOR	LISTING	SITE INSPECTION (LSI)					
(This score is based on	(This score is based on the expected aquisition of information from the Listing Site inspection.)								
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Cescription	Ref. #				
Observed Release	(0) 45	x 1	0	No docomentation					
# Observed Release soo	res 45 proceed to line 4								
2 Route Characteristics				Facil 43 %	7				
Faci	Intervening Terrain 6.0 0 0 3 My 0 1 1 2 3	хt	0	Interv=3 %	2				
Stop	'la a a a a								
1-yr. 24 hr Raidal	0123	_ x1	2	2.5 ir.	5				
Distance to Nearest Surface Water	0123	, x 2	4	~/4 mile to Franklin	2				
Physical State	0 1 2 3	x1	3	Paint Sludges, Liquids	1				
	Total Rouse Char. Score)	9						
3 Containment	0123	x1	3	droves leaking	10				
4 Waste Characteristics		ŧ							
Persistence 0	1 2 (3)			Assume Heary metals	· · · · · · · · · · · · · · · · · · ·				
Toxicity 1 3	0 0 0 6 9 12 9 12 15	x1	18	(Lend) from Paint	(
(3) 9 Haz, Waste Quanti	12 15 (18) y 0 1 2 3 4 (5)6 7 8	x 1		~ 1400 Barrels	1				
	Total Waste Char, Sco	(0	23						
S Targets			1						
Surface Water Use	6123	x3		Franklin cr	8				
Dist, to Sensitive Environment	1 2 3	×2		Not Casently used	7,2				
	Description to Water bush Downstream		<u> </u>	Nonewitin brile					
Population	10 4 6 8 10			5. C					
Served	10 12 18 24 30	x1	<u> </u>	Sur Cace wester not					
	0 20 30 35 40		1	used for detaking	8				
	Total Targets Score		0						
6 If line 11 is 45, multiply If line 11 is 0, multiply		·	0						
Divide line d by ex	350 and multiply by 100	Ssw	-0						

AIR ROUTE

Rating Factor Assigned Value (Circle One)	Multi- plier	Score	Description	Rel. #
1 Observed Release 0 45	x1	0	No documentation	_
If line 1 is 0, the Sa=0. Enter on line 5 If line 1 is 45, then proceed to line 2				
2 Waste Characteristics				
Reactivity & 0 1 2 3 Incompatability	x1		· ·	
Toxicity 0 1 2 3	x3			
Haz. Waste Quantity 0 1 2 3 4 5 6 7 8	x 1			
Total Waste Char, Sc	xxce	,		
3 Targets	x 1	<u> </u>		1
Distance to Sensitive 0 1 2 3	x2			
Land Use 0 1 2 3	x 1			1.
Total Targets Score				
4 Rangey [] x [] x []				

AIR ROUTE

					
· (This	PRELIMINARY HRS accre is based on existing prior to the Sor	ng file inf	ormation	that was obtained	,
Rating Factor	Assigned Value (Cirde One)	Multi- plier	Score	Description	Ref. #
Observed Release	6 45	£1	0	No documentation	-
E line 1 is 0, the Sa	-0. Enter on line 5 proceed to line 2				
[] Waste Characteristic					
Reactivity & Incompatability	0 1 2 3	x t			
Toxicity .	0 1 2 3	x 3			
Haz, Waste Quard	My 0 1 2 3 4 5 6 7 8	x 1			
•	Total Waste Char. So	oxe			
3 Targets Population within 4-mile Radius	Dist to Population 0 0 0 0 9 12 15 18 12 15 18 21 Pop 15 18 21 24 18 21 24 27				
Distance to Sensit Environment	[21 24 27 30	x 1	}		
Land Use	0 1 2 3	x 1			
	Total Targets Score				
Extrapt 1x2x	3				
Divide line 4 by 3	15,100 and multiply by 100		S _a =	O .	

AIR ROUTE

*********	• • • • •			S SITE INSPECTION (LSD from the Usting Site Inspe	
Rating Factor	Assigned Valle (Circle One)	Multi- plier	Score	Description	Rel.
1 Observed Release	6) 45	x1	0	No documentation	-
If line 1 is 0, the Sam If line 1 is 45, then po	0. Enter on line 5 roceed to line 2	· · · · · · · · · · · · · · · · · · ·			
2 Waste Characteristics					
Reactivity 4 Incompatability	0 1 2 3	x 1			
Toxicity	0 1 2 3	x 3			
Haz, Waste Quantity	012345678	, x1			
,	Total Waste Char. Soo	ΧΦ			
3 Targets Population within 4-mile Radius	Dist to Populzion 0 0 0 0 9 12 15 18 12 15 18 21 00 15 18 21 24				
	³ 02-15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitiv Environment	0 1 2 5	x2			
Land Use	0 1 2 3	x t			
	Total Targets Score				
A statisty (1 x 2 x (3		0		
S Divide line 4 by 35,	.100 and multiply by 100		S ₄ -	O	:

FIRE AND EXPLOSION

	PRELIMINARY HRS SCORE WORKSHEET					
(Thi	(This score is based on existing tile information that was obtained					}
		orlor to the Scr		te Inspec	tion.)	
Rating Factor	Assign (Circ	ned Value le One)	Multi- plier	S∞re	Description	Ref. #
1 Containment	<u> </u>	3	x1	l	Barrels have been remark	
2 Waste Characteristic	ಜ					
Direct_Evidence	©	3	x t	O	No decimentation	~
l gnilabilit y	6 1	2 3	' x1	0	. (-
Reactivity	(7) 1	2 3	x 1	0		-
Incompatability	@ 1	2 3	x 1	0		
Haz. Waste Ouan	iny 1 2	3 4 3 6 7 6	x 1	0	ΪĬ	_
	Total	Waste Char. So	жe	0		
3 Targets		•				
Dist to Nestest P	op. , 0	1 2 3 4 5	; x1	3	~ 500 FT	2
Dist. to Newest 8	ildg. O	1 2 3	x1	3	onsite	9
Dist to Sensitive	Env. (0) 1	1 2 3	x 1	0	>100 f1	2
Land Use	0 1	1230.	. x1	3	Residential	2
Pop. Within 2 mile	es 0 1	2 3 4 5	x 1	3	~1178 people	2,6
Blogs. Water 2 m	iles 0	1 2 3 4 5	x1	3	~ 430 blds	2,6
	\ Total	Targets Score		15		
Multiply 11 x 2 :	(3			75		
S Divide line 4 by	S Divide line 4 by 1,440 and multiply by 100 S _E = O					

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)					
(This score is based on the expected acq			nation fr	om the Screening Sie insp	ection.)
Rating Factor Assigned Value (Circle One)	Mult plies		Score	Description	Ref. #
1 Containment (1) 3	;	x 1		Barrelo have been convoid	1
2 Waste Characteristics					
Direct_Evidence (6) 3	:	x 1	0	No documentation	_
Ignitability (7 1 2 3		x 1	0	Barrels, removed	-
Reactivity 🔞 1 2 3		x 1	0	C)	-
Incompatability (0) 1 2 3		x 1	0	`1	
Haz. Waste Quantity (6) 1 2 3 4 5	7 8	x 1	0	. a	_
Total Waste Cl	iar. Score		O		
3 Targets					
Dist. to Nearest Pop. 0 1 2 🕄	4 5	x 1	3	~5009+	2
Dist. to Nearest Bkg. 0 1 2 (3		x 1	3	on sile	9
Dist. to Sensitive Env. (0) 1 2 3		x 1	0	>100 F1	2
Land Use 0 1 2 3		x 1	3	Residential <4 mile	2
Pop. Within 2 miles 0 1 2 (3)	4 5	×1	3	~ 1178 people	2.6
Bldgs. Within 2 miles 0 1 2 3) 4 5	x 1	3	~ 430 bldgs	2,6
Total Targets	Score		15	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Multiply 11 x 21 x 3	·		75		
S Divide line 4 by 1,440 and multiply by 100 S _E = O					

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI) (This score is based on the expected acquisition of information from the Usting Site Inspection.)						
Rating Factor		ned Value le One)	Multi- plier	Score	Description	Ref. #
[] Containment	1	3	x1	ì	Barrels have been	
2 Waste Characteristic	cs					
Direct Evidence	6	3	x1	0	No decumentation	
Ignitability	6	2 3	x1	0	Barrels removed	1
Reactivity	(9) 1	2 3	x1	0	U	
Incompatability	6 1	2 3	x1	0		1
Haz. Waste Quan	tity (1) 1 2	3 4 5 6 7 8	x1	0	. ((,
	Total	Waste Char. Sc	×>10	Ó		
3 Targets						
Dist. to Nearest P	op. 0	1 2 3 4	s x1	3	~500 Ft	2_
Dist. to Nearest B	lidg. o	1 2 🕉	x t	3	on site	9
Dist to Sensitive	Env. (1)	1 2 3	x1	0	7100 Ft.	2
Land Use	0	1 2 ③	x1	3	Residential 4m</td <td>2</td>	2
Pop. Within 2 mile	s O	1 2 3 4	5 x1	3	~ 1178 People	2,6
Blogs. Within 2 m	iães O	1 2 3 4	5 x1	3	~ 430 bldgs	2,6
	Tota	l Targets Score		15		
Multiply [] x 2 :	x 3			75		
Divide line 4 by 1,440 and multiply by 100 S _E = O						

DIRECT CONTACT

PRELIMINARY HRS SCORE WORKSHEET (This score is based on existing file information that was extained prior to the Screening Site inspection.)					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	C-scription	Ref. #
1 Observed Incident	(0) 45	x1	0	No decomantation	-
tt line 1 is 45, proce	eed to line 4 ed to line 2				
2 Accessibility	0 1 ② 3	x1	2	Area fraged	11
3 Containment	(0) 15	x1	0	Unknown	-
4 Waste Characteristic	æ				
Toxicity	0 1 2 3	x S	0	Unknown	-
S Targets					
Pop. Within 1 mile	0 1 2 3 4 5	x4	8	~ 1033 perte	6,2
Dist. to Crit. Habi	lat (0 ¹ 1 2 3	x4	0	None light for be Co.	7
	Total Targets Score		8		
6 If line 1 is 45, multiple of line 1 is 0, multip	# 2 × 3 × 4 × 5 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6		0		
Oivide line 6 by 2	1,600 yd ylqillum bess 003,11	S	c =0		

DIRECT CONTACT

				NG SITE INSPECTION (S	. 1
Rating Factor	Assigned Value (Circle One)	Lulti- plier	Score	Description	Rei e
Observed Incident	(6) 45	x1	0	No documentation	_
If line 1 is 45, proceed If line 1 is 0, proceed	eed to line 4				
2 Accessibility	0 1 ② 3	x1	2	Area ferrel-	11
3 Containment	0 (s)	x1	15	Assine No Containment	_
4 Waste Characteristic	cs.				
Toxicity	0 1 2 3	xS	15	Assime Lead	_
S Targets					
Pop. Wahin 1 mie	012345	, x4	8	~1033 people	6.2
Dist to Crit Habi	dat (0) 1 2 3	x4	(C)	None listed fuler Co.	7
	Total Targets Score	}	8		
6 If line 1 is 45, multiple to line 1 is 0, multiple	tiply (1x4xs) ply (2x3)x4xs		3600		
Divide line 6 by 21,600 and multiply by 100 Spc= 16.67					

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI) (This score is based on the expected acquisition of information from the Usting Site_Inspection.).					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Incident	(6) 45	x1	0	No documentation	_
# line 1 is 45, proce	eed to line 4 ed to line 2				
2 Accessibility	0 1 ② 3	x1	2	Aron forced	1)
3 Containment	0 (5)	x1	2	Passume No Containment	
(Waste Characteristi	cs				
Toxicity	0 1 2 3	x\$	15	Assume Lead	_
S Targets					
Pop. Wahia 1 mie	012345	x4	රි	~ 1033 people	6,2
Dist to Crit. Hes	dzi (0) 1 2 3	x 4	Ò	Nonclisted for Levic.	7
	Total Targets Score)	8		
6 If line 11 is 45, mut If line 11 is 0, muti	****		3600		
Divide line 6 by 21,600 and multiply by 100 Spc= 16.67					

APPENDIX

Copies of the following addenda have been supplied to the U.S. Environmental Protection Agency and the appropriate state agencies. Refer to these addenda when reviewing this work plan.

Addendum

Title

Â	Routine Analytical Services Contract Required Detection and Quantitation Limits
3	Central Regional Laboratory Detection Limits
C	Special Analytical Services Detection Limits Drinking Vater Samples
D	Special Analytical Services Detection Limits Bigh Concentration Samples

REFERENCES

REFERENCE DOCUMENTATION SHEET

Rel.#	DESCRIPTION OF REFERENCE
1	U.S. EPA, May 22 1985, Potential Hazardous waste site Actimina
	Assessment, for Lossan Stage Sites, US. EDA. ID: ILDOZSYZSAIH,
	Prefaced by Kenneth Page IEPA.
2	V.S.G.S., 1983, Grand Detour; 1983, Dixon East; 1983, Daysville;
	1983, Franklin Grave; 1925, Chana; 1975, Achton, Illinois
	Quadranales, 7.5 minute socies: 1:24,000.
-	
3	Illinois Dopt. of Public Health, Well construction raports
	of Buells, Lee County, II, T.ZIN, R. 10 E, sec's 1,2,3,
	10, 11, 12.
4	U.S. Depl. of Comerce, 1979, National Climatic
	Conter, Climatic Atlas of the United States, Ashville
	N.C.
ł	

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
5	U.S. Darl of Commerce, 1963, Rainfall frequency attes
	of The U.S., Technical Paper #40, Wosington DC.
6	US Dect of Commerce, 1982, Bureau of the Census
	Number = FInhabitants, Illinais, 1940 consus.
7	116 5
 	U.S. Doct of Interior, 1989, USFish + wildlife source
	Endangent species list, Great lakes Ping ion.
8	Uphoff, Bill, January 30,1990, City of Franklin Grove
	water dept. Telephone conversation, contacted by
	Jeff Taylor of E+E.

REFERENCE DOCUMENTATION SHEET

Rel.	DESCRIPTION OF REFERENCE	
9	Illinois Environmental Protection Agency, May 29, 1980,	
	Memo to division files, site in whation by	
	Amy Laiselle of IFFA.	
10	Illinois Environmental Actedion Agency, June 25, 1980,	
	Memoto division file on Lossan storage, filed by	
	Amy Laiselle of IEPA.	
11	Illinois Environmental Protection Agency, January 21,1981,	
	Observation report for Louis stenage, filed by	
	Amy Luxella C IEPA.	
15	Illinois Envisonmental Rotection Agency, April 15, 1961	
	Memo to division file on Logan Strage, filed	
	by LD Lopinto.	

SOURCES AND DATES OF INFORMATION COLLECTION

SOURCE	DATE
1) State Hazardous/Solid Waste H 2) State Vater Files 3) State Air Files 4) State Department of Health 5) State Geological Survey 6) State Department of Natural H 7) State Fire Karshall 8) County Department of Health 9) County Engineer 10) County Clerk/Recorder of Deconication City Department of Health 12) City Engineer 13) City Fire Department/Fire Ham 14) City Vater/Sever Department 15) U.S. Soil Conservation Service 16) Others	Resources Is Is Is Is Is Is Is Is Is I
STATE CONTACT(S): Bob Wenge (name)	(phone number)